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AS/NZS 61241.10:2005
IEC 61241-10, Ed.1 (2004)
(Incorporating Amendment No.1)

AS/NZS 61241.10:2005

Australian/New Zealand Standard™

Electrical apparatus for use in the presence of combustible dust

Part 10: Classification of areas where combustible dusts are or may be present

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This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee MS-011, Classification of Hazardous Areas. It was approved on behalf of the Council of Standards Australia on 5 April 2005 and on behalf of the Council of Standards New Zealand on 15 April 2005.
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The following are represented on Committee MS-011:

Auckland Regional Chamber of Commerce
Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
Australian Industry Group
Australian Institute of Petroleum Ltd
Certification Interests (Australia)
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Electrical apparatus for use in the presence of combustible dust

Part 10: Classification of areas where combustible dusts are or may be present

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee MS-011, Classification of Hazardous Areas, with the assistance of the Joint Subcommittees EL-014-05, Dust and Plenum Systems and MS-011-01, Combustible Dusts, to supersede AS/NZS 61241.3:1999.

This Standard incorporates Amendment No. 1 (March 2007). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

This Standard is identical with, and has been reproduced from IEC 61241-10, Ed.1(2004), *Electrical apparatus for use in the presence of combustible dust – Part 10: Classification of areas where combustible dusts are or may be present*.

The objective of this Standard is to provide manufacturers and installers of electrical equipment, as well as electrical inspecting authorities, with classification of areas where explosive dust/air mixtures and combustible dust layers are present, in order to permit the proper selection of electrical apparatus for use in such areas.

This first edition of AS/NZS 61241.10 cancels and replaces AS/NZS 61241.3, published in 1999.

The major changes with respect to AS/NZS 61241.3 are listed below:

(a) Definitions of zones have changes.

(b) Layers are no longer restricted to Zone 20. Consideration of layers as a source of a dust cloud has been introduced.

AS/NZS 61241 consists of the following parts under the general title: *Electrical apparatus for use in the presence of combustible dust:*

Part 0:	General requirements
Part 1:	Protection by enclosures ‘tD’
Part 2:	Type of protection ‘pD’*
Part 10:	Classification of areas where combustible dusts are or may be present
Part 11:	Protection by intrinsic safety ‘iD’†
Part 14:	Selection and installation
Part 17:	Inspection and maintenance of electrical installations in hazardous areas (other than mines)†
Part 18:	Protection by encapsulation ‘mD’
Part 20:	Test methods‡
Part 20.1:	Methods for determining the minimum ignition temperatures of dust
Part 20.2:	Method for determining the electrical resistivity of dust in layers
Part 20.3:	Method for determining minimum ignition energy of dust/air mixtures

As this Standard is reproduced from an International Standard, the following applies:

(i) Its number does not appear on each page of text and its identity is shown only on the cover and title page.

(ii) In the source text ‘this International Standard ‘should read ‘this Australian/New Zealand Standard ‘.

(iii) A full point substitutes for a comma when referring to a decimal marker.

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* To be published (to supersede current AS/NZS 612141.4).

† To be published.

‡ Under consideration (to supersede current Parts 2.1, 2.2 and 2.3).

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Further useful information regarding combustible dusts can be found in AS/NZS 4745:2004, *Code of practice for handling combustible dusts*.

The terms ‘normative’ and ‘informative’ are used to define the application of the annex to which they apply. A normative annex is an integral part of a standard, whereas an informative annex is only for information and guidance.

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